

Building Cisco Service Provider Next-Generation Networks, Part 1 (SPNGN1)
(642-885)

QUESTION 1

You noticed a recent change to the BGP configuration on a PE router, the bgp scan time has been changed from the default value to 30s. Which three effects will this change have? (Choose three.)

- A. The BGP table will be examined and verified more frequently
- B. The BGP keepalive messages will be sent to the BGP peers at a faster rate
- C. The BGP table will be modified more quickly in the event that a next-hop address becomes unreachable
- D. The CPU load of the router will increase
- E. The minimum time interval between sending EBGP and IBGP routing updates will decrease
- F. The BGP convergence time will increase

Answer: ACD

QUESTION 2

On Cisco IOS-XR, which BGP process can be distributed into multiple instances?

- A. BGP process manager
- B. BGP RIB process
- C. BGP speaker process
- D. BGP scanner process
- E. BGP dampening process

Answer: C

QUESTION 3

Refer to the configuration exhibit, taken from a Cisco IOS-XR router. Which configuration change is required to properly enable this router as the signaling router for implementing source-based RTBH filtering?

```
!
router static
address-family ipv4 unicast
192.0.2.1/32 Null0
!
route-policy RTBH
if tag is 666 then
set next-hop 192.0.2.1
endif
end-policy
!
router bgp 65123
address-family ipv4 unicast
redistribute static route-policy RTBH
!
!When attacks are detected from 209.165.201.144/28
!
router static
address-family ipv4 unicast
209.165.201.144/28 null0 tag 666
!
```

- A. set community (no-export) in the route policy

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- B. pass in the route policy
- C. set local-preference 1000 in the route policy
- D. The 192.0.2.1/32 static route should be tagged as 666 (tag 666)

Answer: A

QUESTION 4

Refer to the Cisco IOS-XR BGP configuration exhibit. Identify two configuration errors. (Choose two.)

```
!  
route-policy passall  
permit  
end-policy  
!  
router bgp 65123  
af-group abc address-family ipv4 unicast  
route-policy passall in  
route-policy passall out  
!  
neighbor-group efg  
password C!sc0!3o  
ttl-security  
update-source Loopback0  
maximum-prefix 10  
address-family ipv4 unicast  
use af-group abc  
!  
neighbor 209.165.201.130  
remote-as 65234  
use neighbor-group efg  
!
```

- A. The neighbor-group efg is missing the ebgp-multihop 2 configuration
- B. The ttl-security configuration command is missing the option to set the number of hops
- C. The passall route policy is wrong
- D. The route-policy passall in and route-policy passall out commands should be configured under the neighbor-group efg instead of the af-group abc
- E. The maximum-prefix 10 configuration should be configured under the af-group abc instead of the neighbor-group efg

Answer: CE

QUESTION 5

Which two statements correctly describe the RPF check when a multicast packet arrives at a router? (Choose two.)

- A. The router looks up the source address in the unicast routing table to determine if the packet has arrived on the interface that is on the reverse path back to the source

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- B. The router looks up the destination address in the unicast routing table to determine if the packet has arrived on the interface that is on the reverse path back to the destination
- C. If the packet has arrived on the interface leading back to the destination, the RPF check passes and the packet is forwarded. If the RPF check fails, the packet is dropped
- D. If the packet has arrived on the interface leading back to the source, the RPF check passes and the packet is forwarded. If the RPF check fails, the packet is dropped

Answer: AD

QUESTION 6

Refer to the Cisco IOS-XR show output exhibit. Which statement is correct?

```
RP/0/RSP0/CPU0:P1#show bgp neighbors 10.1.1.1 configuration
Wed Oct 26 17:45:09.690 UTC
neighbor 10.1.1.1
  remote-as 64500 [ ]
  update-source Loopback0 [ ]
  address-family IPv4 Unicast [ ]
```

- A. The [] indicates the configuration has a problem
- B. The [] indicates the 10.1.1.1 neighbor peering session has not been established
- C. The [] indicates the configuration was not inherited from a group
- D. The [] indicates the configuration has not been committed
- E. The [] indicates the corresponding BGP peer configuration has a mismatch configuration

Answer: C

QUESTION 7

When enabling interdomain multicast routing, which two statements are correct? (Choose two.)

- A. Multiprotocol BGP is used instead of PIM SM to build the intradomain and interdomain multicast distribution trees
- B. Use MSDP to enable the RPs from different domains to exchange information about active multicast sources
- C. MSDP SA packets are sent between the multiprotocol BGP peers
- D. Noncongruent unicast and multicast topologies can be supported using multiprotocol BGP

Answer: BD

QUESTION 8

The 224.192.16.1 multicast IP address maps to which multicast MAC address?

- A. 01-00-5E-C0-10-01
- B. 01-00-5E-40-10-01
- C. 01-00-5E-00-10-01
- D. 01-00-5E-C0-16-01

Answer: B

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QUESTION 9

The following Cisco IOS-XR configuration command will globally enable which multicast process(es) on the router?

```
RP/0/RP0/CPU0:router(config)# multicast-routing
```

- A. IGMP only
- B. PIM only
- C. IGMP and MLD only
- D. PIM and IGMP only
- E. PIM and IGMP and MLD

Answer: E

QUESTION 10

When implementing interdomain multicast routing, which mechanism can be used to advertise multicast sources in one domain to the other domains, allowing the RPs to build interdomain multicast distribution trees?

- A. Multiprotocol BGP
- B. PIM
- C. MSDP
- D. Auto RP
- E. BSR
- F. MLD

Answer: C

QUESTION 11

Which two statements regarding Auto RP operations and implementations are correct? (Choose two.)

- A. Candidate RPs send RP announcements to the 224.0.1.39 multicast group, and the mapping agents send RP discovery messages to the 224.0.1.40 multicast group
- B. Every PIM-SM router must be configured with the RP mapping agent IP address
- C. Candidate RPs learn the IP address of the mapping agents via periodic RP discovery messages
- D. Administrative scoping can be configured to limit the scope of the RP announcements
- E. A Reverse Path Forwarding check is done on the RP discovery messages
- F. RP discovery messages are flooded hop by hop throughout the network as multicast to the all PIM routers multicast group with a TTL of 1

Answer: AD

QUESTION 12

What is determined by running the same hash algorithm on all PIMv2 routers?

- A. The SPT from the RP to the multicast source
- B. The SPT from the last hop router to the multicast source
- C. Auto RP election
- D. Which BSR to use for a particular multicast group

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E. Which RP to use from a set of candidate RPs in the RP set

Answer: E

QUESTION 13

When configuring PIM operations, what is the effect of setting the SPT threshold to infinity?

- A. The multicast source to the RP path will never switch over to the shortest path tree
- B. All the PIM routers will have more (S,G) states, thus consuming more router resources
- C. The receivers will be able to immediately switch over to the shortest path tree after receiving the first multicast packets on the shared tree via the RP
- D. The last-hop routers will never switch over to the shortest path tree and will always remain on the shared tree

Answer: D

QUESTION 14

Which multicast group range is reserved for SSM?

- A. 224.0.0.0/8
- B. 225.0.0.0/8
- C. 232.0.0.0/8
- D. 239.0.0.0/8

Answer: C

QUESTION 15

Which four statements are correct regarding MSDP configurations and operations? (Choose four.)

- A. The MSDP peers are also typically the RPs in respective routing domains.
- B. SA messages are flooded to all other MSDP peers without any restrictions
- C. On Cisco IOS, IOS-XE, and IOS-XR, the router can be configured to cache the SA messages to reduce the join latency
- D. SA messages are used to advertise active sources in a domain
- E. MSDP establishes neighbor relationships with other MSDP peers using TCP port 639
- F. MSDP peerings on Cisco IOS, IOS-XE, and IOS-XR support MD5 or SHA1 authentication

Answer: ACDE

QUESTION 16

When verifying multicast configurations and operations on Cisco IOS-XR routers, which two statements regarding show commands are correct? (Choose two.)

- A. Use the show route ipv4 multicast command to display the incoming and outgoing interface lists for each of the joined multicast groups
- B. Use the show pim rpf command to display the RPF information for the RP or for the multicast source
- C. Use the show mrib route command to display the (*,G) and (S,G) states information on the router
- D. Use the show mrib route command to display the configured static multicast routes

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Answer: BC

QUESTION 17

Assume that the R1 router is enabled for PIM-SM and receives a multicast packet sourced from 172.16.1.100, and the R1 router has multicast receivers on the Gi0/1, Gi0/2, Gi0/3 and Gi0/4 interfaces. The multicast packet from the 172.16.1.100 source must arrive on which interface on the R1 router for it to be forwarded out the other interfaces?

R1 routing table:

```
172.16.1.0/24 via Gi0/1
172.16.2.0/24 via Gi0/2
172.16.3.0/24 via Gi0/3
0.0.0.0/0 via Gi0/4
```

- A. Gi0/1
- B. Gi0/2
- C. Gi0/3
- D. Gi0/4
- E. Gi0/1 or Gi0/2 or Gi0/3 or Gi0/4
- F. Gi0/2 or Gi0/3
- G. Gi0/1 or Gi0/4

Answer: A

QUESTION 18

Refer to the exhibit. Which statement correctly explains the bgp graceful-restart command?

```
router bgp 65123
  bgp graceful-restart
```

- A. This command is used to enable NSR and is entered on the NSR-capable router, and also on any NSR-aware peer
- B. This command is used to enable NSF and is entered on the NSF-capable router, and also on any NSF-aware peer
- C. This command is only required on the NSF-capable routers to enable BGP graceful restart with the BGP peers
- D. This command is only required on the NSF-aware routers to enable BGP graceful restart with the BGP peers
- E. This command is only required on the NSR-capable routers to enable BGP graceful restart with the BGP peers

Answer: B

QUESTION 19

Refer to the exhibit. Which configuration is missing to complete the configuration task of enabling BFD with the 192.168.1.1 EBGP peer?

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```
router bgp 64500
bfd multiplier 2
bfd minimum-interval 20
address-family ipv4 unicast
network 10.1.1.0/24
!
address-family ipv6 unicast
!
neighbor 192.168.1.1
remote-as 65001
address-family ipv4 unicast
!
end
```

- A. bfd fast-detect also needs to be enabled globally under router bgp 64500
RP/0/RSP0/CPU0:P1(config-bgp)#bfd fast-detect
- B. bfd fast-detect also needs to be enabled for the address-family under address-family ipv4 unicast
RP/0/RSP0/CPU0:P1(config-bgp-af)#bfd fast-detect
- C. bfd fast-detect also needs to be enabled for the 192.168.1.1 neighbor under neighbor 192.168.1.1
RP/0/RSP0/CPU0:P1(config-bgp-nbr)#bfd fast-detect
- D. bfd fast-detect also needs to be enabled for the 192.168.1.1 neighbor address-family under neighbor 192.168.1.1 address-family ipv4 unicast
RP/0/RSP0/CPU0:P1(config-bgp-nbr-af)#bfd fast-detect
- E. bfd fast-detect also needs to be enabled globally on the router RP/0/RSP0/CPU0:P1(config)#bfd fast-detect

Answer: C

QUESTION 20

Which two features are used to provide high availability multicast? (Choose two.)

- A. BFD
- B. NSF/SSO
- C. PIM NSR
- D. PIM triggered join
- E. IGMP triggered report
- F. MSDP

Answer: BD